

Message Text

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ACTION OES-07

INFO OCT-01 EA-12 ISO-00 FEA-01 ACDA-10 CIAE-00 INR-07
IO-14 L-03 NSAE-00 NSC-05 EB-08 NRC-07 DODE-00
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R 160548Z SEP 77
FM AMEMBASSY TOKYO
TO ERDA GERMANTOWN
ERDA WASHDC
SECSTATE WASHDC 1143

UNCLAS SECTION 1 OF 2 TOKYO 14246

STATE PLS PASS TO NRC FOR LAFLEUR & TONG

E.O. 11652: N/A
TAGS: TECH, JA
SUBJECT: ERDA TOKYO OFFICE ITEMS POSSIBLE INTEREST, SEPT 3-16, 1977

ERDA FOR SIEVERING, LIVERMAN, CHAPMAN, CUNNINGHAM, J. DENNY

1. ERDA SAFEGUARDS TEAM VISIT TOKAI-MURA
ERDA SAFEGUARDS TEAM, CHAPMAN, HOUCK, OVUKA, SUDA,
SHIPLEY AND MAHY (LATTER PART TIME) ARRIVED TOKYO SEPTEMBER
9, VISITED TOKAI-MURA REPROCESSING PLANT SEPTEMBER 10
AND 11, DISCUSSIONS WERE HELD WITH NSB, AEB AND PNC
PERSONNEL IN TOKYO ON SEPTEMBER 12. TOUR OF TOKAI AND
BRIEFING ON PLANT SAFEGUARDS WELL AND THOROUGHLY HANDLED
BY NSB AND PNC WITHOUT ANY PROBLEM IN SPITE OF SHORT
NOTICE. REVIEW OF PLANS AND STATUS JOINT GOJ-IAEA SAFEGUARDS
CONTRACT CONDUCTED. PARTIES ATTEMPTING TO IDENTIFY AREAS
WHERE ERDA CAN CONTRIBUTE TO SAFEGUARDS PROGRAM AT TOKAI-
MURA WITHOUT INTERFERING IN RELATIONSHIP GOJ-IAEA OR IN
OPERATION OF PLANT. AREAS OF PARTICIPATION BEING DEFINED
SO AS TO CONTRIBUTE AS MUCH AS POSSIBLE TO ERDA SAFEGUARDS
PROGRAM. DIFFICULTY IS THAT PLANT NOW READY TO GO
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(SEPTEMBER 22 SCHEDULED START DATE), TWO YEAR TIME
PERIOD OF US-GOJ JOINT AGREEMENT VERY SHORT CONSIDERING
DIFFERENT OBJECTIVES OF PARTICIPANTS, NEED TO DEFINE,
SECURE OR CONSTRUCT EQUIPMENT, INSTALL IT AND OBTAIN
AND INTERPRET MEANTINGFUL RESULTS.

2. NRC TEAM NEGOTIATING CONTRACT WITH JAPAN AND WEST

GERMANY.

NRC TEAM MEMBERS LED BY DR. TONG AND INCLUDING REPRESENTATIVES FROM LASL, ORNL, NUS, AND EGHG VISITED JAERI AND NSB TO WORK TOWARD ACHIEVING A THREE-WAY PWR 3-D LOSS-OF-COOLANT-ACCIDENT FLOW DISTRIBUTION EXPERIMENTAL PROGRAM AMONG JAPAN, WEST GERMANY AND THE US. WEST GERMANY WAS REPRESENTED BY PROF. MEINGER AND MR. DLUZNIEWSKI; JAERI'S REPRESENTATIVE WAS MR. NOZAWA AND MR. MATSUI REPRESENTED NSB. IT IS CURRENTLY PLANNED THAT THREE AGREEMENTS WILL BE MADE--BILATERALS BETWEEN EACH PAIR OF PARTICIPANTS--TO COMBINE AND INTERRELATE THE LOCA FLOW DISTRIBUTION EXPERIMENTS BEING PLANNED AND CONDUCTED BY EACH OF THE THREE COUNTRIES. IT IS ANTICIPATED THAT THIS COOPERATIVE EFFORT WILL SAVE CONSIDERABLE FUNDS; JAPAN'S EQUIPMENT BUDGET ALONE IS EXPECTED TO RUN ABOUT \$30 MILLION.

A MAJOR PROBLEM WHICH THIS IMPENDING AGREEMENT SHARES WITH CERTAIN JAPAN-IEA AGREEMENTS AND WITH THE MITI-ERDA NO WANUCLEAR AGREEMENTS (GEOTHERMAL, SOLAR, BATTERIES, ELECTRIC VEHICLES) IS THE US REQUIREMENT FOR ROYALTY-FREE LICENSES WHICH APPEARS TO BE COUNTER TO JAPANESE LAW OR AT LEAST TO THE WAY IT IS BEING INTERPRETED. IT IS APPARENT THAT THE SUCCESS OF THESE GOVERNMENT-TO-GOVERNMENT AGREEMENTS WILL REQUIRE RESOLUTION OF THIS PROBLEM. PATENT OFFICE AND INDIVIDUALS IN ANRE AND AIST HAVE BEEN CONTACTED.

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3. AI VISITORS

THE PRESIDENT OF ATOMICS INTERNATIONAL WAS BRIEFED ON THE NUCLEAR SITUATION IN JAPAN AND VISITED THE AMBASSADOR. AI IS ATTEMPTING TO EXPAND THEIR MARKETS IN LWR EQUIPMENT, MOSTLY RECOMBINERS IN JAPAN, KOREA AND TAIWAN AND IS SEEKING LICENSING OR JOINT VENTURE POSSIBILITIES.

4. RADIATION EFFECTS RESEARCH FOUNDATION BUDGET.

RERF JFY 1978 BUDGET AS COMMENTED ON BY ERDA WAS FORWARDED TO MHW FOR SUBMISSION TO FIN MIN. WITH NEW HEALTH BUREAU DIRECTOR (MATSUURA FOR SABURI) AND ASSISTANTS (TATEYAMA FOR KUROKAWA) NEW TEAM NEEDS TO BE ORIENTED ON EXCEEDINGLY COMPLEX BUDGETARY, PROGRAMMING AND INSTITUTIONAL RELATIONSHIPS OF MHW AND ERDA.

5. ERDA-STA NUCLEAR WASTE MANAGEMENT AGREEMENT

DURING THE RECENT VISIT OF THE STATE-ERDA-ACAD TEAM TO NEGOTIATE THE TOKAI-MURA REPROCESSING PLANT ISSUE, THE QUESTION OF A JOINT US-JAPAN WASTE MANAGEMENT PROGRAM WAS BROUGHT UP. THIS ISSUE WAS DISCUSSED BY FRI AND BARANOWSKI AT THE FIFTH US-JAPAN ATOMIC ENERGY

CONFERENCE IN MARCH, 1976, SHORTLY AFTER WHICH A DRAFT AGREEMENT WAS GIVEN TO THE JAPANESE NUCLEAR SAFETY BUREAU, ATOMIC ENERGY BUREAU, MINISTRY OF INTERNATIONAL TRADE AND INDUSTRY AND ATOMIC ENERGY COMMISSION. FOLLOW UP EFFORTS RESULTED IN NO REAL PROGRESS. IN VIEW OF THE MORE RECENT DISCUSSIONS ANOTHER COPY OF THE DRAFT WAS TRANSMITTED TO THE NUCLEAR SAFETY BUREAU WITH A LETTER URGING THAT IT BE REVIEWED AGAIN AND THE EMBASSY BE CONTACTED IN REGARD TO GOJ INTEREST.

6. NIIGATA-1 REACTOR INSTALLATION PERMIT
THE PRIME MINISTER ISSUED A PERMIT FOR THE INSTALLATION OF TEPCO'S NIIGATA-1 REACTOR (1100 NWE BWR) SEPT 1 AS RECOMMENDED BY JAEC. APPLICATION FOR PERMIT SUBMITTED
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MARCH 1975. START OF PLANT CONSTRUCTION EXPECTED OCT 1978, COMMERCIAL OPERATION DEC 1984.

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7. JAPANESE UTILITIES
A. CHUGOKU'S SHIMANE-1 (460 MWE BWR) WAS SHUTDOWN SEPT 14 TO SEPT 24 FOR MAINTENANCE.
B. KYUSHU'S GENKAI-1 (559 MWE PWR) WILL BE SHUTDOWN LATE SEPT FOR MAINTENANCE FOR ABOUT 3 WEEKS.

C. CHUBU'S HAMAOKA-1 (540 MWE BWR) WILL BE SHUTDOWN IN LATE SEPT FOR PERIODIC MAINTENANCE FOR ABOUT 5 MONTHS. CONTROL ROD DRIVE WATER RETURN NOZZLES ARE TO BE CHECKED FOR CRACKS IN VIEW OF FUKUSHIMA-1 AND 2 NOZZLE CRACKS.

D. TOKYO'S FUKUSHIMA-5 (784 MWE BWR) WILL START POWER TESTS IN LATE SEPTEMBER. TURBINE ADJUSTMENT AND EMERGENCY AUXILIARY MACHINE TESTS ARE NOW UNDERWAY.

8. SODIUM LOOP CONTROL SYSTEM

TOSHIBA HAS DEVELOPED A COMPUTERIZED SYSTEM FOR ALL-AUTOMATIC CONTROL OF SODIUM LOOP OPERATION. SYSTEM IS BEING USED FOR AUTOMATIC OPERATION OF FOUR SODIUM TEST LOOPS IN TOSHIBA'S ENERGY EQUIPMENT LABORATORY, KAWASAKI. SYSTEM SOFTWARE TECHNOLOGY IS IMMEDIATELY APPLICABLE TO FBR COOLANT CONTROL. APPLICATION TO FBR EXPECTED TO INCREASE RELIABILITY AND TO REDUCE SODIUM SYSTEM OPERATION PERSONNEL REQUIREMENTS TO UNCLASSIFIED

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ONE-TENTH OF PRESENT NUMBER. SAFETY SYSTEM PROVIDED INDEPENDENTLY OF COMPUTER SYSTEM. TOSHIBA ATTEMPTING TO INTEREST PNC IN THIS SYSTEM FOR PROTOTYPE FBR MONJU.

9. PNC HIGH-LEVEL RADIOACTIVE MATERIALS RESEARCH FACILITY
PNC PLANS CONSTRUCTION OF HIGH-LEVEL RADIOACTIVE MATERIALS RESEARCH FACILITY IN TOKAI LABORATORY. FACILITY TO BE COMPRISED OF 11 CELLS--5 FOR DEVELOPMENT OF ATR & FBR SPENT FUEL REPROCESSING AND 6 FOR R&D ON VITRIFICATION OF HIGH-LEVEL LIQUID WASTES FROM REPROCESSING PLANT. PNC EXPECTS TO COMPLETE CONSTRUCTION BY MID-1980. JAEC DIRECTOR ITS NUCLEAR FUEL SAFETY EXAMINATION COMMITTEE TO EXAMINE FACILITY SAFETY. EXAMINATION EXPECTED TO BE COMPLETED WITHIN 1977.

10. SAFEGUARDS ANALYSIS LABORATORY

STA PLANS CONSTRUCTION OF NUCLEAR MATERIALS SAFEGUARDS ANALYSIS LABORATORY IN JAERI-TOKAI COMPOUND. LABORATORY TO MEASURE NUCLEAR MATERIALS AND ANALYZE ISOTOPIC COMPOSITION OF SAMPLES COLLECTED FOR SAFEGUARDS INSPECTIONS, AND TO CHECK SAFEGUARDS INSTRUMENTS, E.G. PULSE ANALYZERS. LABORATORY OPERATION TO BE COMMISSIONED AS NUCLEAR MATERIALS CONTROL CENTER (NMC). STA EXPECTS TO START OPERATION NOV 1978. JAEC DIRECTED ITS NUCLEAR FUEL SAFETY EXAMINATION COMMITTEE TO EXAMINE LABORATORY SAFETY. DESIGN CONDUCTED BY JAERI FOR STA.

11. PHYSICAL PROTECTION TEAM OVERSEAS

JAPANESE TEAM FOR DISCUSSION OF INTERNATIONAL COORDINATION
OF NUCLEAR MATERIALS CONTROL CRITERIA FOR PHYSICAL PROTECTION
WILL LEAVE JAPAN SEPT 19 ON 3-WEEK TOUR OF US, UK, FRANCE
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& WEST GERMANY. COMPRISED PRIMARILY OF STA, MITI AND OTHER
GOVERNMENT OFFICIALS, HEADED BY NMC MANAGING DIRECTOR YOSHIO
KAWASHIMA.

12. POWER GENERATION WINDMILLS

STA PLANS TWO-YEAR PROGRAM ON POWER GENERATION WINDMILL R&D
BEGINNING 1978 TO DEMONSTRATE ENERGY CONSERVATION THROUGH
THE HARNESSING OF WIND ENERGY. NE OR TWO KWE WINDMILLS
TO BE CONSTRUCTED TO GENERATE ELECTRICITY FOR WATER
WARMING, PUMP DRIVING AND BATTERY CHARGING. DYNAMOS FROM
SCRAPPED CARS MAY BE USED AS GENERATORS.

MANSFIELD

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